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PCT

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference		
PCT04001	FOR FURTHER ACTION	See Form PCT/IPEA/416
nternational application No.	International filing date(day/month/ye	ear) Priority date (day/month/year)
PCT/KR2004/001683	09 JULY 2004 (09.07.2004)	11 JULY 2003 (11.07.2003)
IPC7 E01F 15/00  Applicant	of national classification and IPC	·
CHOI, Kwang-Chul  1. This report is the international repo	reliminary examination report actablish	ned by this International Preliminary Examining
Authority under Article 35 and	ransmitted to the applicant according to	Article 36
<ol><li>This REPORT consists of a total</li></ol>		his cover sheet.
<ol> <li>This report is also accompanied</li> <li>a. (sent to the applicant a</li> </ol>	l by ANNEXES, comprising: nd to the International Bureau) a total of	sheets, as follows:
Administrative  sheets which subeyond the discontaining a sequence Box relating to Sequence Box relating to Sequence Box No. I Basis of the Box No. II Priority  Box No. II Non-estal Box No. IV Lack of the Box No. V Reasoned citations a Box No. VI Certain de Box No. VII Certain de Control Certain de Control Certain de Certain	Instructions).  persede earlier sheets, but which this Aulosure in the international application as sox.  all Bureau only) a total of (indicate type listing and/or tables related thereto, in elect Listing (see Section 802 of the Admirelating to the following items:  the report  olishment of opinion with regard to nove mity of invention  statement under Article 35(2) with regard explanations supporting such statement occuments cited	elty, inventive step and industrial applicability ard to novelty, inventive step or industrial applicability;
Box No. VIII Certain o	oservations on the international applicati	ion
Date of submission of the demamd	Date of co	mpletion of this report
29 APRIL 2005 (	<b>29.04.2005)</b> 27	OCTOBER 2005 (27.10.2005)
Name and mailing address of the IPEA/KR		d officer
Korean Intellectual Prope 920 Dunsan-dong, Seo-gr Republic of Korea	1 Daeigan 202 701	D, Ho Shin
Facsimile No. 82-42-472-7140	Telephone	No. 82-42-481-8126

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/001683

Rox No.	I Basis of the report
othe	h regard to the language, this report is based on the international application in the language in which it was filed, unless the indicated under this item.
$\boxtimes$	This report is based on translations from the original language into the following language
	which is the language of a translation furnished for the purposes of:
	international search (under Rules 12.3 and 23.1(b))
	publication of the international application (under Rule 12.4)
}	international preliminary examination (under Rules 55.2 and/or 55.3)
to th	regard to the <b>elements</b> of the international application, this report is based on (replacement sheets which have been furnished e receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not xed to this report):  the international application as originally filed/furnished
	the description:
	pagesas originally filed/furnished
	pages* received by this Authority on
	pages* received by this Authority on
	the claims:
	pages as originally filed/furnished
1	pages* as amended (together with any statment) under Article 19 pages* received by this Authority on
Ì	pages* received by this Authority on
↓ ┌	
	the drawings:
1	pagesas originally filed/furnished pages*as originally filed/furnished
	pages* received by this Authority on pages* received by this Authority on
3.	the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.  The amendments have resulted in the cancellation of:  the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify):  any table(s) related to sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).  the description, pages the claims, Nos.  the drawings, sheets the sequence listing (specify):  any table(s) related to sequence listing (specify):
* If it	rm 4 applies, some or all of those sheets may be marked "superseded."

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

. Statement			
Novelty (N)	Claims	1 - 5	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	2	YES
	Claims	1, 3 - 5	NO
Industrial applicability (IA)	Claims	1 - 5	
	Claims	NONE	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: JP 52-34131 U (AOKI KOUICHIRO) 10 March 1977 D2: KR 2000-201595 Y (KIM, IKBAE) 1 November 2000 D3: JP 9-302631 A (HOWA KK) 25 November 1997

### Novelty

D1 relates to an eye-catching barrier comprising a colored casing which is inserted into a groove for reflecting the light of a vehicle. D2 relates to a reflecting plate of a road safety sign, which is coated with ultraviolet rays. D3 relates to a delineator for reflecting light, which is installed at a guardrail.

None of the available prior art documents D1-D3 disclose or suggest the subject-matter of the present application. Therefore, novelty can be acknowledged for the subject matter of claims 1-5 of the present application.

#### 2. Inventive step

D1 is considered to be the closest prior art. Claim 1 is similar to D1 in that reflecting plates are formed at left and right sides of the reverse trapezoid casing and that the outer portions thereof are covered with covers, but different from D1 in that in claim 1 the reflecting surface of the inside consists of a mirror, whereas in D1 the inside of the casing is colored. However, such a difference is a mere difference in the design that can be readily selected and applied by a person skilled in the art, where necessary, and consequently neither involves any technical difficulty nor produces any surprising effect beyond the effect of D1. Accordingly, the light reflector of claim 1 can be readily invented by a person skilled in the art. Therefore, the subject matter of claim 1 is considered to lack an inventive step.

(Continued on Supplemental Sheet.)

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#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box No. V

Claim 3 adds the following feature to the features of claim 1 or 2: formation of an inserting protrusion (13) at one side of the reflector's body and an inserting recess (14), into which the inserting protrusion (13) of another light reflector is inserted, at another side thereof. Said additional feature is a common means which can be selectively used by a person skilled in the art, where necessary, and consequently does not produce any unexpected operational effect. Accordingly, the light reflector of claim 3 can be readily invented by a person skilled in the art. Therefore, the subject matter of claim 3 is considered to lack an inventive step.

Claims 4–5 add the following feature to the features of claim 1 to 3: coating of an upper surface of a transparent cover (10) with a well-known transparent static electricity preventive materials (18). Said additional feature can be readily derived from the coating of the reflecting plate of D2, and is also a common means which can be selectively used by a person skilled in the art, where necessary. In addition, said feature does not produce any unexpected operational effect. Accordingly, the light reflector of claims 4–5 can be readily invented by a person skilled in the art. Therefore, the subject matter of claims 4–5 is considered to lack an inventive step.